

AMENDMENTS TO THE CLAIMS

Please cancel claim 4, amend claims 1 and 5, and add new claim 32, as follows:

Claim 1 (Currently Amended) An injection molding with at least one surface which has self-cleaning properties, wherein the surface has securely anchored microparticles which form elevations having an aspect ratio of from 0.3 to 0.9.

Claim 2 (Original) The injection molding as claimed in claim 1, wherein the elevations have an average height of from 20 nm to 25 μm and an average separation of from 20 nm to 25 μm .

Claim 3 (Previously Presented) The injection molding as claimed in claim 1, wherein the elevations have an average height of from 50 nm to 4 μm and/or an average separation of from 50 nm to 4 μm .

Claim 4 (Cancelled).

Claim 5 (Currently Amended) The injection molding as claimed in claim 1, wherein the securely anchored microparticles are nanostructured microparticles ~~which have a~~ with fine structure ~~with~~ elevations ~~with~~ having an aspect ratio of greater than 1.

Claim 6 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles are selected from the group consisting of particles of silicates, minerals, metal oxides, metal powders, silicas, pigments, polymers and mixtures thereof.

Claim 7 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles are selected from the group consisting of particles of fumed silicas, precipitated silicas, aluminum oxide, mixed oxides, doped silicates, titanium dioxide, pulverulent polymers and mixtures thereof.

Claim 8 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles have hydrophobic properties.

Claim 9 (Previously Presented) The injection molding as claimed in claim 1, wherein the injection molding itself comprises at least one material selected from the group consisting of polycarbonates, polyoxymethylenes, poly(meth)-acrylates, polyamides, polyvinyl chloride, polyethylenes, polypropylenes, aliphatic linear polyalkenes, branched polyalkenes, cyclic polyalkenes, polystyrenes, polyesters, polyether sulfones, polyacrylonitrile, polyalkylene terephthalates, poly(vinylidene fluoride), poly(hexafluoropropylene), poly(perfluoropropylene oxide), poly(fluoroalkyl acrylate), poly(fluoroalkyl methacrylate), poly(vinyl perfluoroalkyl ether), or comprises other polymers made from perfluoro-alkoxy compounds, poly(isobutene), poly(4-methyl-1-pentene), polynorbornene in the form of homo- or copolymer, and mixtures thereof.

Claim 10 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles are impressed into the surface of the injection molding only to an extent of from 10 to 90% of their average particle diameter.

Claim 11 (Previously Presented) The rejection molding as claimed in claim 1, wherein the microparticles have an average particle size (diameter) of from 0.02 to 100 μm .

Claim 12 (Previously Presented) A process for producing injection moldings as claimed in claim 1 with at least one surface which has self-cleaning properties and has elevations formed by microparticles, by injection molding, comprising applying microparticles to the injection mold prior to an injection-molding step and then carrying out an injection-molding step in which the microparticles are pressed into the surface of the injection molding.

Claim 13 (Previously Presented) The process as claimed in claim 12, wherein at least some of the microparticles are impressed into the surface of the injection molding only to an extent of not more than 90% of their average particle diameter.

Claim 14 (Previously Presented) The process as claimed in claim 12 further comprising for the injection-molding process, utilizing at least one polymer selected from the group consisting of polycarbonates, polyoxymethylenes, poly(meth)acrylates, polyamides, polyvinyl chloride, polyethylenes, polypropylenes, aliphatic linear polyalkenes, branched polyalkenes, cyclic polyalkenes, polystyrenes, polyesters, polyether sulfones, polyacrylonitrile, polyalkylene terephthalates, poly(vinylidene fluoride), poly(hexafluoropropylene), poly(perfluoropropylene oxide), poly (fluoroalkyl acrylate), poly(fluoroalkyl methacrylate), and poly(vinyl perfluoroalkyl ether), or of other polymers made from perfluoroalkoxy compounds, poly(isobutene), poly(4-methyl-1-pentene), acrylonitrile-butadiene-styrene terpolymer (ABS), polynorbornene in the form of homo- or copolymer, and mixtures thereof.

Claim 15 (Cancelled).

Claim 16 (Previously Presented) The process as claimed in claim 12, where the microparticles are applied to the injection mold by spray-application.

Claim 17 (Original) The process as claimed in claim 16, wherein the microparticles are applied to the injection mold by applying, to the injection mold, a suspension which comprises hydrophobic particles and comprises a solvent, and then evaporating the solvent.

Claim 18 (Original) The process as claimed in claim 16, wherein the microparticles are applied to the injection mold by applying an aerosol which comprises hydrophobic particles and a propellant gas.

Claim 19 (Previously Presented) The process as claimed in claim 12, wherein the injection-molding process is carried out using a pressure greater than 40 bar.

Claim 20 (Previously Presented) The process as claimed in claim 12, wherein the microparticles used have an average particle diameter of from 0.2 to 100 μm .

Claim 21 (Previously Presented) The process as claimed in claim 12, wherein the microparticles are selected from the group consisting of silicates, minerals, metal oxides, metal powders, silicas, pigments, polymers and mixtures thereof.

Claim 22 (Previously Presented) The process as claimed in claim 12, wherein the microparticles used have hydrophobic properties.

Claim 23 (Previously Presented) The process as claimed in claim 12, wherein the microparticles have hydrophobic properties by virtue of treatment with a compound.

Claim 24 (Original) The process as claimed in claim 23, wherein the microparticles have been provided with hydrophobic properties prior to or after bonding to the surface of the injection molding.

Claim 25 (Previously Presented) A molding with a surface which has self-cleaning properties and has surface structures with elevations, produced by a process as claimed in claim 12.

Claim 26 (Original) The molding as claimed in claim 25, selected from the group consisting of vessels, lampshades, bins, storage vessels, drums, dishes, measuring beakers, funnels, tanks, and housing parts.

Claim 27 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles are anchored to the surface without any additional securing material.

Claim 28 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles are impressed into the surface of the injection molding.

Claim 29 (Previously Presented) The injection molding as claimed in claim 1, wherein the microparticles are incorporated into the surface of the injection molding.

Claim 30 (Previously Presented) The injection molding as claimed in claim 1, wherein the securely anchored microparticles are present in the form of a layer.

Claim 31 (Previously Presented) The process as claimed in claim 12, wherein the microparticles have hydrophobic properties by virtue of treatment with a compound selected from the group consisting of alkylsilanes, fluoroalkylsilanes and disilazanes.

Claim 32 (New) An injection molding with at least one surface which has self-cleaning properties, wherein the surface has securely anchored microparticles which form elevations, and wherein the securely anchored microparticles are nanostructured microparticles with fine structure elevations having an aspect ratio of greater than 1.